



# Tarantulas

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*NTC Rotation*  
*In-brief*



# UNIT IN-BRIEF

## Agenda



- Introduction
- NTC Training
- Tarantula 07 Intent
- Observer / Controllers
- After Action Reviews
- Standard Prep for Battle
- FORSCOM Leader Development Program
- Exercise Rules of Engagement (EXROE)
- Live Fire
- CSS Overview & EXROE
- Risk Management

• 1100 - 1200 Unit Inbrief  
LU w/ your counterpart  
after the brief.



# CSA on Training



- “Warfighting remains job # 1. And to win those wars, we must train soldiers and grow leaders.
- Everyday, we must train soldiers and grow leaders.....all of our missions are subordinate to that imperative.”

GEN Eric K. Shinseki  
General, US Army  
Chief of Staff



# NTC



# High-Resolution Training

- **Rigorous Simulation of Combat**
  - Executing METL tasks on unfamiliar terrain
  - Fighting a capabilities- based adversary
  - Fighting as a combined arms Task Force
- **Fully Resourced**
  - All classes of supply
  - Maneuver terrain / battlefield effects / MILES
  - Time
- **Battle Focused Feedback**
  - Experienced OCs to teach, coach, and mentor
  - Instrumented and comprehensive AARs



# OC Introductions





# Team Guidance

- **Focus:**
  - High resolution warfighting training & Leader development
  -
- **Imperatives:**
  - Train the force using Army standards & the 8 step training model
  - Coach, teach and mentor: conduct meaningful AARs at every level geared towards learning
  - Positive attitude & Warrior spirit
  - Lead by example: standards & discipline
  - Leader development: OCs & Counterparts
  - Manage risk in everything we do
  - Have fun every day
- **End State:**
  - Increased training readiness in units
  - Players & OCs learn every day
  - Safe execution



# Who Are the OCs

- As Coaches
  - Analyze application of doctrine and assist unit training through formal and informal AARs
  - Help staff / unit improve tactics, techniques and procedures
- As Observers
  - Observe and analyze staff / unit performance throughout mission planning, preparation and execution
- As Controllers
  - Apply battlefield effects, assess casualties and enforce the ROE



# Who the OCs Are Not



- The Chain of Command
- Evaluators
- The Enemy





# OC Standing Guidance



- Develop good relationship with your counterpart
- Tell it like it is
- MILES rules the battlefield
- Address issues TF leadership wants addressed
- Stop unsafe acts



# OC Requirements

- Place at OPORDS & Rehearsals
- Parking near TOC / CPs
- 3 copies of Tactical SOP (T03A/T03B)
- 3 copies of all orders and one copy of overlays (Ops, FS, CSS)
- Self sufficient (except emergency medical support)



# After Action Reviews



- What happened
- Why it happened
- How to improve / sustain performance
- How can we apply today's lessons learned to the next fight?



# THE AAR PROCESS

***DID THE UNIT ACCOMPLISH ITS MISSION?***



**YES**

How could they do it better?  
What are the fixes?  
Who will fix?

**No**

What didn't go right?  
How did it affect the mission?  
What are the fixes?  
Who will fix?

**Bottom Line: AARs are designed to help the unit improve.**



# TF AAR

## Administrative Procedures



- **Platoon** = CTM + 30min
- **Company** = CTM + 2hrs
  - Plan for 4 hours from CTM for AAR completion (no recons, movement, etc)
- **Task Force** = CTM + 6hrs
  - *Arrive early (30 Minutes prior)*
  - Park away from AAR van
  - Do not bring MWLD, LBE, helmet, protective mask or weapons into van

### 3 TYPES

Instrumented  
Hummer-Top  
Counterpart

### TF CSS AARs

2 to 3 Hummer Top  
Prep Days in AM



# Typical TF AAR Attendance



- Battalion Commander
- Executive Officer
- Command Sergeant Major
- Company Commanders
- S1
- S2
- S3
- A/S-3
- OPS SGM
- S4
- FSO
- ADO
- Engineer
- SIGO
- NBC Officer
- Scout PL
- Mortar PL
- Medical PL
- Support PL

**Instrumented AARs**

**24 Seats**

**10 Overflow seats**



# House Rules

- Participate - **Speak loudly** and clearly
  - Use pointer, Laser is not eye safe (**do not** point laser at the white board or TV Monitor)
- No thin skins
- Only address issues within the Task Force
- MILES rules the battlefield - deal with it
- Determine:
  - What happened?
  - Why it happened?
  - How do we apply today's lessons learned to the next mission?
- Relate your NTC experience to your home station training
- Take Notes
- Do not leave the van during the AAR!
- No Tobacco products in van.
- Leave laser pointers in the van.



# Standard Preparation



	A CO	B CO	C CO	TOW	SCT	MTR	ENG	ADA
BORESIGHT								
PCC / PCI								
CLASS III / IV / V								
REHEARSE								
SUB OPORD								
TIME MANAGEMENT								
GRAPHICS								

	<b>DONE TO STD</b>
	<b>NOT TO STD</b>
	<b>NOT DONE</b>
	<b>NA</b>





# Quote

“If you can work successfully here in this country, it will be no difficulty at all to kill the assorted sons of bitches you will meet in any other country.”

Patton  
Desert Training Center  
1942



# UNIT IN-BRIEF

## ROE Overview



### Tarantula 03

- Tactical Posture
- Maneuver
- OC Assisted Assessment
- Weapons/Ammunition
- Air Defense
- COB's
- Live Fire



# ROE: Tactical Posture



- All soldiers and vehicles (**Red** / **Blue**) will have working MILES
- Troops will not take off MILES except to sleep / wash
- Troops / vehicles with inoperable MILES assessed as casualty

*OCs check MILES daily*

*OCs may check MILES at any time*

*Unit is responsible for MILES DX*



# ROE: Maneuver

## (1 of 2)



- MILES rules the battlefield, *however*
- OC may adjudicate
  - Creosote bush / MILES berm rule
  - Bunker rule for fragmentation



# ROE: Maneuver

## (2 of 2)



- Dismounted personnel remain within 300m of tracking device or OC
- OPs must have an operational radio
- No physical contact between units
  - Infantry no closer than 50m to OPFOR vehicles
  - Infantry no closer than 10m to OPFOR soldiers
- OC will determine outcome within 50 / 10m



# Controller Assisted Assessment



## SAWE (Simulated Area Weapons Effects)

### – Artillery

- Direct result of enemy fire missions
- Not controller generated
- Controller assisted assessment

### – FASCAM

- Size based on amount of ammunition available (400 X 400 or 200 x 800)
- Firemarkers mark; air burst and ground burst artillery simulators
- Yellow smoke and aiming post at each corner, outside perimeter marked with red or blue blocks



# ROE: Weapons Systems



- All weapons must present a firing signature
  - Small arms / coax BLANKS
  - Missile systems ATWESS
  - Tank main gun HOFFMAN
  - 25mm chain gun FLASHWESS

ATWESS Color - coded ammunition  
used in:

<u>AT - 4</u>	Yellow
<u>TOW</u>	Red
<u>Stinger</u>	Blue
<u>Dragon</u>	Green

Signals:

FASCAM: Yellow smoke & Arty Sims

Mine effect: HG Simulator / SAWE

Stinger launch: White star cluster

OPFOR SAM launch: Green star  
cluster

Unmarked ATWESS will be treated as a dud and confiscated by an O/C.

Units should retain ATWESS for Live Fire for all Missile Systems



# ***ROE: Ammunition***



## **3 Types of Ammunition**

**Simulators - Blanks, Hoffman  
& ATWESS**

**Replicators - Sand filled  
canisters Javelins/TOWs,  
Stingers, & AT Mines**

**AT-4 (Viper) = 3/4 sandbag  
Dragon/Javelin = 1 full sandbag**

**Paper - 60/81mm MTRs**

**Grenades: MRE bag 1/4 full of sand  
and a chem light taped to the  
outside**

**581/5515s with DODIC/NOMEN**

## **Paper Ammunition Transfer:**

**Placard must be physically  
present**

**Use proper handling procedures**

**O/Cs adjust O/H ammo**





# ROE: Javelin

- Javelin = FTT + SBCU + CLU + VIPER MILES
  - Fired in IS Mode
  - OC present
- - Additional Rds requested through normal supply channels
    - Sim Rd + SBCU + Viper MILES



# ROE: Air Defense



- Helicopters
  - All helicopter MILES equipped
  - OPFOR has HIND-D replicas



# ROE: Cave

- All soldiers have eye protection
- Hand grenades may be used at initial entry, but will cause casualties inside complex
- 5m rule in effect
- No physical contact
- No vehicles on or within 10m of cave entrances
- Vehicle weapons: 50m rule in effect



# ROE: Civilians on the Battlefield



- MILES equipped
- Stress execution of ROE
- Can be a source of information or a threat
- Often followed by media
- Operate throughout depth of the battlefield



# Live Fire

- A culmination of home station training
- No range safety officers - leaders control fires
- No range fans / limits / markers / flags / towers /  
firing points
- TF / BCT level CALFEX designed to challenge/train  
the Task Force's ability to control fires



# OC Role in Live Fire

- Fight the OPFOR - pull targets
- Provide battlefield effects
- Assess BLUEFOR “kills” based on engagement ranges, LOS, reaction to contact, enemy capabilities and safety
- Assist unit during planning and execution phase by ensuring fire control measures support Surface Danger Zones (SDZ) and Minimum Safe Lines (MSL).



# Live Fire OPFOR

- Plywood targets replicate T-80s, BMPs, and BRDMs;  
reverse polarity, MILES sensors (missile only)
- Enemy direct fire - HOFFMAN, ATGM
- A hit on enemy vehicle gives steel on steel signature
- Enemy illumination



# Live Fire Points of Friction

- Adhere to DIV/BDE approved MSRs
- All soldiers have flak vests
- 100% accountability of personnel/units

behind the BP/FLOT





# UNIT IN-BRIEF

## CSS Overview



### Tarantula 02

- CSS Exercise Rules of Engagement
- Risk Management/ Safety
- NTC Environmental Overview
- RSOI Overview
- Questions/ OC Counterpart Link-Up



# When You Become A Casualty



***When your MWLD/ PDD Sounds continuously....  
you have been assessed as a casualty and  
required to:***

- Cease all tactical play
- Remove helmet and insert yellow key in MWLD/PDD  
(do not remove helmet during live fire)
- Execute MILES casualty card (follow the directions)
- Living may take individual equipment and ammunition from friendly casualties
- At no time will soldiers be left on the battlefield, alone
  - Must be in a groups of 3 DAY and 5 for NIGHT operations



# NTC CSS ROE

## MILES Cards



WIA

**RTD:** Self/Buddy aid / No evacuation to BAS  
Will not continue to fight...can assist in CASEVAC  
May be re-keyed at T07 discretion to get into fight  
DA 1156 is required

**Walking:** Can walk, talk & assist  
Must be evacuated to BAS(Level I)

**Litter:** **Urgent or Priority**  
Must be carried on litter(STD or improvised)  
Manual carries to CCP if no litter  
Improvised litter OK  
Must be evacuated to BAS and FSMC

KIA

Must be evacuated to unit casualty collection point  
Remain dead 5 hours after last KIA collected at GREGG site  
Must be reported to next higher HQs (BDE S-1)  
DA 1156 is required IOT be reconstituted  
Not evacuated with wounded casualties



# Casualties

## *Died of Wounds*

*Can be WW, Litter (P) and/ or Litter (U)*

*Medical OC will determine all DOWs*

*Casualties will be declared DOW when:*

## Reasons for DOWs

Improper Treatment Procedures  
Improper Evacuation Procedures  
Evacuation Time not met  
No MILES Card  
No DD 1380, Field Medical Card  
Failure to Evacuate

## **Additional Points**

### **Died of Wounds**

**KIAs are not DOW**

**Only Medical Professional(s) can declare DOW**

### **Catastrophic Vehicle Kills**

**Casualties Activate Miles Cards**

### **For Individual or Individual Modified Reconstitution**

**CTM + 4 hours for casualty evacuation**

**Unit AARs have priority / OCs will adjust Injury times**

**MILES Cards will be maintained throughout the entire rotation**



# Evacuation Times



**BUDDY /  
SELF AID  
to BAS**

**CLS  
to BAS**

**MEDIC  
to BAS**

**BAS  
to FSMC**

**URGENT**

**1 hour**

**1.5 hours**

**2 hours**

**2 hours**

**PRIORITY**

**2 hours**

**3 hours**

**4 hours**

**4 hours**

**ROUTINE**

**6 hours**

**8 hours**

**12 hours**

**12 hours**

**NOTE: Times are sequential - not cumulative**  
**BAS – Level 1, FSMC – Level II**



# Evacuation Procedures



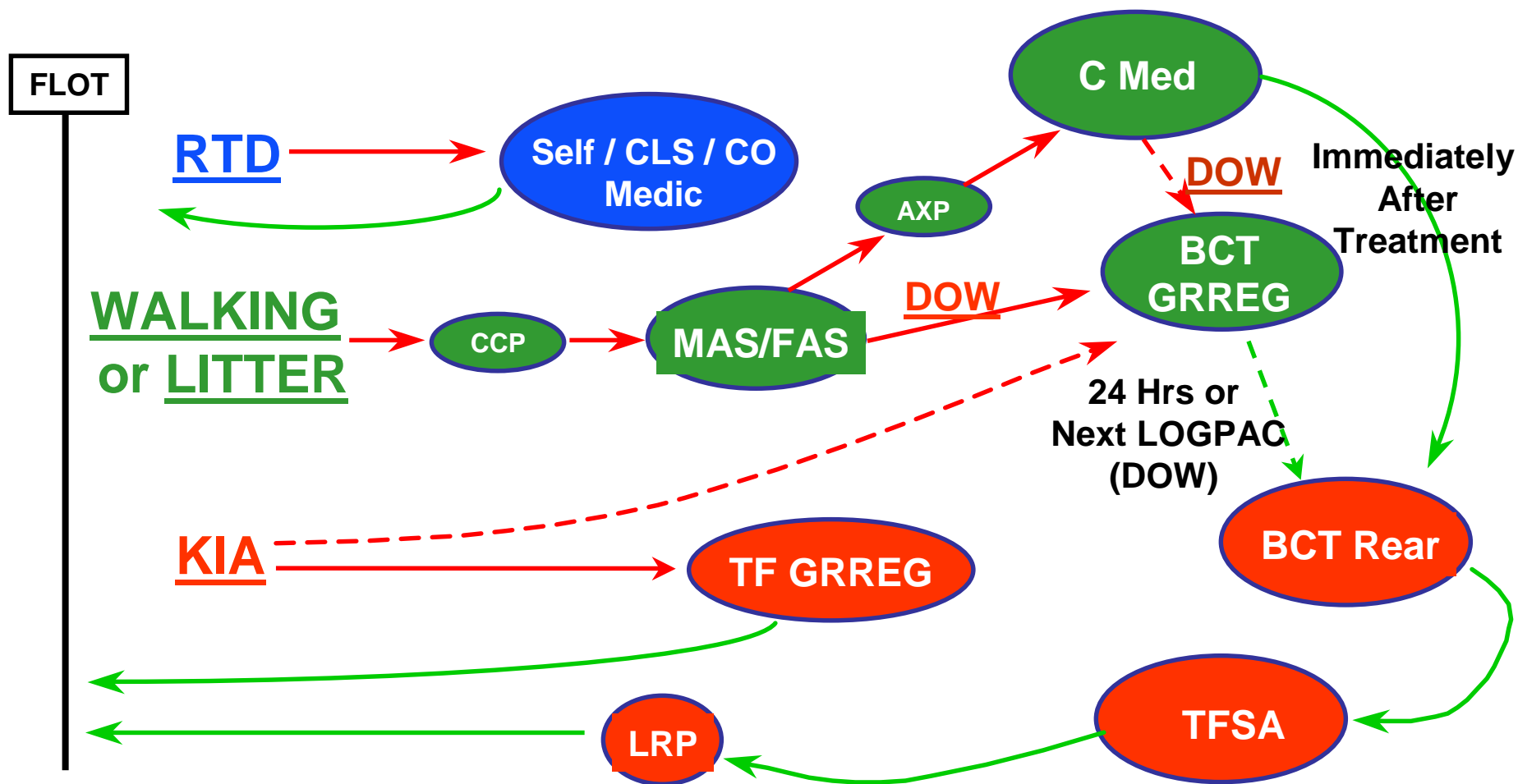
- *All evacuation IAW FM 8-10-6, Medical Evacuation in a Theater of Operations*
  - *Litter straps are required for all rigid litters*
  - *Improvised litters are authorized*
- *Casualties must have their LBE, helmet, protective mask, MOPP gear, MILEs gear*
- *Unit Chain of Command will determine if Casualties are to be evacuated with sensitive items / weapons*
- *Litter casualties require litters throughout the entire evacuation process / Litter exchange authorized*



# Non-Standard Vehicle Evacuation



- *Vehicle load must support the movement of casualties*
- *Load / Unload on a litter - Casualties WILL NOT be  
Transported in a NS vehicle on a litter!*
- *All casualties must remain seated during transport*
- *Litter casualties must have a litter (improvised or standard) present*
- *Appropriate medical treatment must be performed prior to evacuation*
- *HEMMT Cargo not authorized as NS CASEVAC Vehicles*







# When A Vehicle is a Casualty



***When your CVKI/ MITS light flashes continuously.... you have been assessed as a casualty and required to:***

- Halt / cease tactical play
- Stay in place... follow directions of OC
- Back out of holes if in the defense
- Crew members remove headgear (**except LF**)
- Crew and passengers execute casualty cards
- Last dying breath call via FM is authorized
- No ammunition transferred from catastrophic kills



# Simulated Battle Damaged (SBD) Vehicles



- NTC SAWE/ MILES II generates 3 possible damage states when a system is successfully engaged:

- *Mobility damage*
- *Firepower damage*
- *Catastrophic kill*



- A fourth condition: the “Penalty Kill”: Used when the crew violates a restriction placed on them due to the above three categories.



# SBD - Mobility



**\*\*Tandem Towing  
is NOT  
authorized at the  
NTC\*\***

- *Must be recovered by capable vehicle for repair.  
(See Table 7-5, Page 66, Towing Capabilities)*
- *All recovery equipment must be on hand.  
(ie..Towbars, Cables, Shackles, Pins etc...)*
- *Actual recovery operations and towing of SBD  
vehicles will NOT take place.*
- *10 meters / 10 MPH rule.*
- *Can shoot, communicate and cross level CL V.*



# SBD - Firepower

- *Can NOT shoot or cross-level CL V*
- *Can self-recover*
- *Can recover other vehicles*
- *Can evacuate casualties*
- *Can communicate*





# SBD Repair



(Mobility , Firepower and Penalty Kills Only)

*The following items must be presented to the OC at the repair site IOT get a re-key time:*

DAMAGED DTG \_\_\_\_\_  
RPL:  
REPAIR TIME (HRS):  
UNIT:                      LEVEL:  
BUMPER NUMBER:

**Repair times are based on the time found in the maintenance allocation chart for the SBD vehicle type.**

- SBD Placard
- Crewmen complete 2404 (Training Only)
- Mechanics complete

—5504/2407

—2765-1 and verified

*The OC will check to ensure:*

- Part is present or requisitioned
- Lift available at site
- Appropriate skilled mechanics on site
- Required manuals are available on site
- Required special tools at site
- POL products on hand



# Catastrophic Vehicles



*CVKI light indicates a kill and vehicle is not SBDA*

- Catastrophically destroyed*
- Stop in place, weapon to rear (FOF)*
- MILES casualty cards in effect*
- Follow directions of O/C*
- No classes of supply will be taken from a destroyed vehicle*





# Reconstitution of Destroyed Vehicles



- Must be requested by the unit to the Unit S-4 by type and bumper #.
- Unit S-4 reports vehicle loss to BCT S-4.
- Five hours after the data has been received by the BCT S-4 OC, the vehicle will be re-keyed by a OC.
- Vehicles destroyed After LD/ Defend NLT will NOT be re-keyed any earlier the “CTM”.
- Vehicle may refuel, rearm, boresight, and conduct maintenance in a controlled holding area.





# Reconstitution

- BLUEFOR
  - Individual
  - Individual modified
  - Unit
  - Immediate
- OPFOR
  - KIA until Continue The Mission





# ROE



# (Personnel Reconstitution)

- **Individual Reconstitution**

- Casualty evacuated from POI to Level II (with the exception of RTDs) with:

- MILES Casualty Card

- Field Medical Card

- Casualty Feeder Report

- DOW 24 HRS or next day's LOGPAC, which ever comes first
- KIA 5 HRS after report to BDE S-1 and 1156 verified.

- **Individual Modified Reconstitution**

- Executed in the same manner as individual reconstitution with the exception that upon completion of medical treatment at a Level I MTF, casualties will be re-keyed with no further evacuation.



# ROE



# (Personnel Reconstitution)

- **Unit Reconstitution**

- Regeneration is based on the Tactical Senior O/C (COG for TF and larger units) who designates reconstitution requirements
- Casualties remain with their unit and are re-keyed by the Unit O/C upon completion of proper request procedures.

- **Immediate Reconstitution**

- All personnel and equipment will be immediately re-keyed. The unit will begin consolidating forces as required in preparation for its follow-on mission.



# PMCS-5988E

***“SHOOT”***

***“MOVE”***



***“COMMUNICATE”***



# PMCS Standards



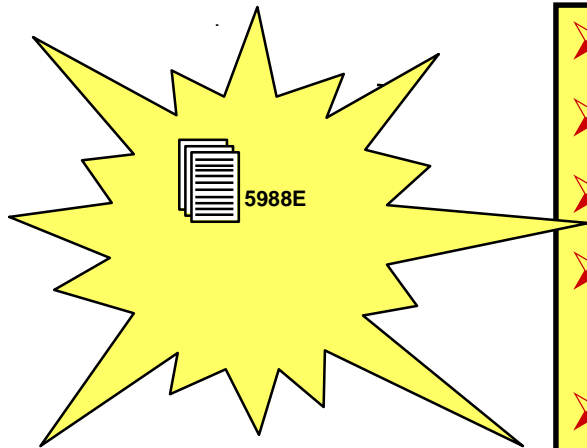
CREW PERFORMS PMCS  
USING 5988E OR 2404

WHAT IS THE BCT  
STANDARD FOR PMCS?

- THE OPERATIONS GROUP FOCUS ON PMCS TRACKING IS COMBAT CRITICAL SYSTEMS  
**81mm MTR, ADA, TOW, JAV, TRK PLT**
- A 5988E OR 2404 IS REQUIRED DAILY
- A NO FAULTS NOTED PMCS MUST ALSO BE RETURNED TO THE ULLS BOX

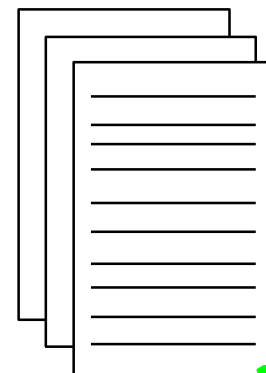
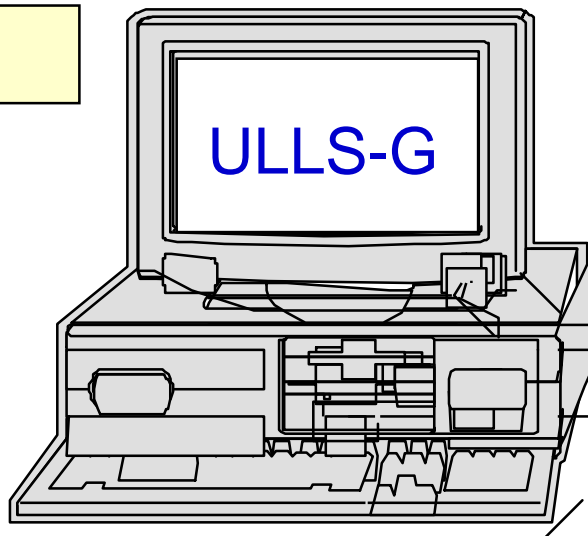


# PMCS Standards



- BUMPER NUMBER CLEARLY ANNOTATED
- AN NSN OR ACTION FOR EACH FAULT
- MAINTENANCE SUPERVISOR SIGNATURE
- TURNED IN TO THE ULLS SITE WITHIN 48 HOURS OF THE PMCS BEING PERFORMED
- NO FAULTS NOTED PMCS SIGNED BY SUPERVISOR

**CREW PERFORMS PMCS  
USING 5988E DAILY**



5988E

At the ULLS  
Box Location  
We Track the  
Results....  
***Daily***





# 5988E With Faults



Date

Bumper #

TM Check #

Date

Status  
Symbol

Fault

Mechanic  
Signature /  
Time

NSN or  
JO Request

5988E With Faults

OPERATIONS GROUP  
TRAIN THE FORCE

1. DATE: 11/11/00

2. BUMPER #: 11111

3. TM CHECK #: 11111

4. MECHANIC SIGNATURE / TIME: [Signature] 1111

5. NSN or JO REQUEST: 11111111

ITEM NO.	DATE	STATUS	FAULT DESCRIPTION	CORRECTIVE ACTION	OPEN WORK LT. NO.
⑦	11/11/00	X	Eng Temp High Incr	008195271 100	
②③	11/11/00	X	Eng Oil Overhead	TAB OILER DSU	
2C	11/11/00	/	Sent Turn	012345678 100	



# 5988E Without Faults



Date

Bumper #

5988E Without Faults

DATE: 11 SEP 00

BUMPER #: 1631

TEAM CHIEF'S INITIALS: D

MECHANIC'S LAST INITIAL: M

STEP	FAULT	FAULT	FAULT	CORRECTION	DATE
NO.	DATE	STATE	DESCRIPTION	ACTION	RES. DATE
1	11 SEP 00			D	M

Team Chief's  
Initials

Date

Mechanic's  
Last Initial



# Safety Overview

- *Risk Management Process*
- *Accidental v. Tactical Risk*
- *Fratricide Reporting*
- *Hazards at NTC*
- *MEDEVAC Procedures*



# FIRST LINE SUPERVISORS ARE THE KEY FOR A **SAFE** & SUCCESSFUL ROTATION

COMMANDERS

Assess  
Hazards

Develop  
Controls & Make  
Risk Decision

Identify  
Hazards

Implement  
Controls

Supervise  
& Evaluate

NCOs & Soldiers

Protect the Force Through Risk  
Management



# Risk Management (FM 100-14)



- Tactical: Risk concerned with hazards that exist because of the **presence of either the enemy or an adversary**. It applies to all levels of war and across the spectrum of operations.
- Accident: **Includes all operational risk considerations other than tactical risk**. It includes risk to the friendly force. It also includes risks posed to civilians by an operation, as well as an operations impact on the environment. It can include activities associated with hazards concerning friendly personnel, civilians, equipment readiness, and environmental conditions.



# RISK ASSESSMENT

**(PRIOR TO EVERY MISSION)**



<b>Mission/Task:</b> <b><i>Environmental Training</i></b>		<b>Page</b> 1 of 1	<b>Mission Date:</b> <b><i>021500FEB00</i></b>	<b>Date Prepared:</b> <b><i>28 Jan 00</i></b>	
<b>Prepared by:</b> <i>Maj Operations, S-3</i>			<b>Risk Management Worksheet</b> <b>Your unit name</b>		
HAZARDS	INITIAL RISK	CONTROLS	RESIDUAL RISK	IMPLEMENT	SUPERVISE
Dust/Brownout Conditions	H	<ul style="list-style-type: none"><li>- Dry/Rehearsals</li><li>- Hazards posted in Flt Ops</li><li>- Hazards briefed</li><li>- Specified Crews</li><li>- Orientation Flights</li><li>- Crew coordination</li></ul>	M	<ul style="list-style-type: none"><li>- OPORD</li><li>- Hazards Map</li><li>- Mission Brief</li><li>- Train-up</li></ul>	<ul style="list-style-type: none"><li>- CDR's</li><li>- S-3</li><li>- Flt Ops OIC</li><li>- SIP</li><li>- SIP</li><li>- ASO</li></ul>
<b>1</b> <b>What is the Hazard?</b>	<b>2</b> <b>Initial Risk Assessment</b>	<b>3</b> <b>Actions that reduce the risk</b>	<b>4</b> <b>Residual Risk</b>	<b>5</b> <b>How to Implement the Control Measures</b>	<b>6</b> <b>Who makes sure the Controls are used</b>
<b>Highest Residual Risk</b>		<b>Risk Acceptor</b>			
<b>Overall Risk Level</b> <b>LOW</b> <b>MEDIUM</b> <b>HIGH</b> <b>EXTREMELY HIGH</b>			<b>Risk Dec</b> <b>8</b> <b>hority:</b> <b>I. M. Golden, Jr, LTC, AV Commanding</b>		



# Fratricide Reporting



- AR 15-6 investigation reports are required
  - Determine your BCT's standard and format during RSOI!
- Completed 15-6 due to 52ID within 48 hours.
- Untimely reporting will result in increased media scrutiny and 52 Mech inquiries.



# Leading Causes Of Accidents



- SITUATIONAL AWARENESS DURING NIGHT OPS
- FATIGUE
- SLIPS, TRIPS, AND FALLS
- DEHYDRATION
- FUEL SPILLS
- VEHICLE FIRES
- ROLL OVERS

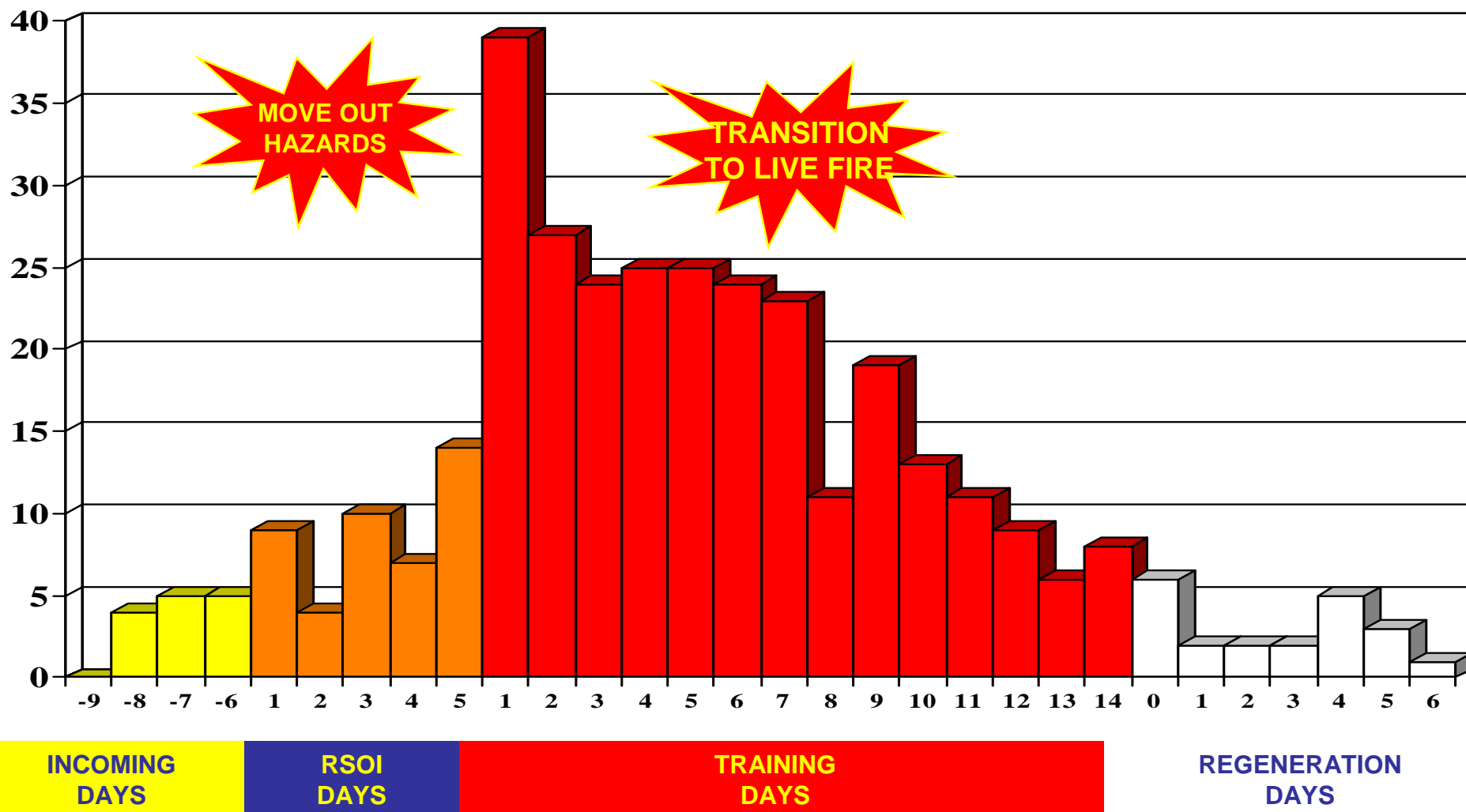




# Mishaps By Training Days



RECORDABLE A, B, & C MISHAPS - 99-01 TO DATE





# Vehicle Operations



Vehicle Type	Normal Day Time Conditions		Limited Visibility w / NVGs		Limited Visibility w o/ NVGs	
	Paved/ Unpaved	X-Country	Paved/ Unpaved	X-Country	Paved/ Unpaved	X-Country
Wheeled	<b>25 MPH</b>	25 MPH	25 MPH	20 MPH	20 MPH	15 MPH
Convoys (3 or more Vehicles)						GRD Guide
	20 MPH	15 MPH	15 MPH	10 MPH	10 MPH	required
	Est. Tank Trails	X-Country	Est. Tank Trails	X-Country	Est. Tank Trails	X-Country
Tracked Vehicles	25 MPH	20 MPH	20 MPH	15 MPH	15 MPH	10 MPH

- Equipment Requirements

- Headgear
- Eye Protection
- Safety Restraints
- Safety Deficiencies(Brakes & Steering)
- Intercom
- Hatches
- Load Plans
- Antennas Tied Down

**Hard Surface Roads  
Are OFF Limits for  
Tracked Vehicles**

- Barstow- Granite
- Langford Lake-Silver Lakes
- East Range Road
- Goldstone



# Vehicle Operations

- Roll-over drills
- Fire drills/Working extinguishers
- Driver, TC Communications
- Secured Hatches
- Dust Intervals
- Seatbelt use
- Use of NVGs







# Hazards at NTC

- Pyrotechnics

- Leave duds alone - report locations to OC and Unit HQS
- Use gloves when handling pyrotechnics

- Sleeping

- Most dangerous activity at NTC
- Sleep only in designated and marked areas
- No sleeping under vehicles

- Carbon-Monoxide Poisoning, Toxic Smoke & Fumes

- Ventilate heaters, generators, stoves (heater guards)
- Wear protective mask when exposed to CS, heavy smoke and FOG oil.

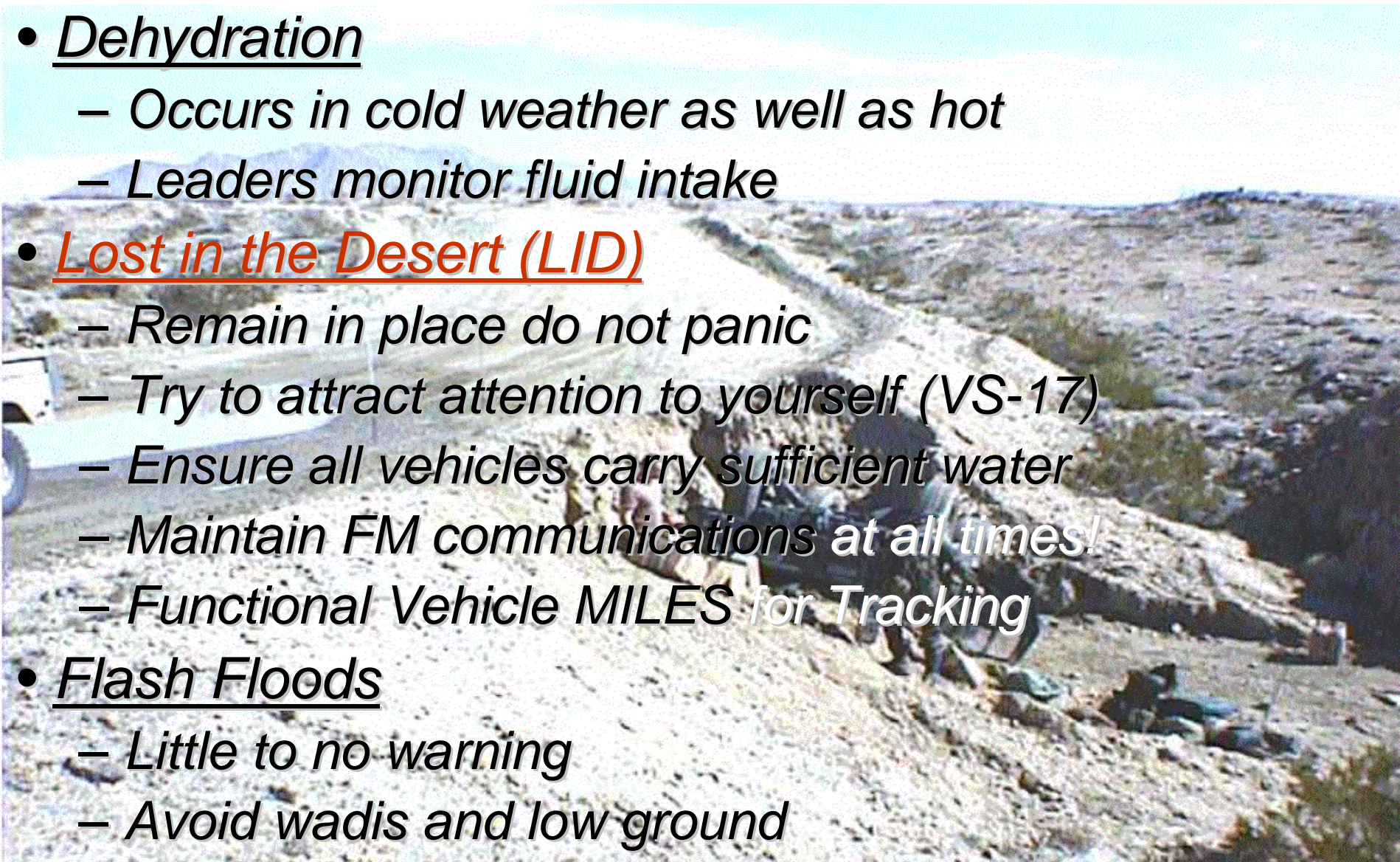






# Hazards at NTC

- Dehydration
  - Occurs in cold weather as well as hot
  - Leaders monitor fluid intake
- Lost in the Desert (LID)
  - Remain in place do not panic
  - Try to attract attention to yourself (VS-17)
  - Ensure all vehicles carry sufficient water
  - Maintain FM communications **at all times!**
  - Functional Vehicle MILES for Tracking
- Flash Floods
  - Little to no warning
  - Avoid wadis and low ground







# Wildlife



- Rattlesnakes

- Western diamondback and speckled
- Sidewinders
- Mojave green

- Insects

- Tortoises

- Coyotes

- Ravens

If you see a Desert Tortoise that maybe in DANGER, Secure the area & Notify a OC Immediately!





# Environmental Concerns



- MSR's
- Desert tortoise (\$50,000)
  - East Range, Barstow-Granite, Langford Lake, Silver Lakes, Goldstone
- Off limits areas
- No Dig/ Restricted Dig Areas
- Toxic chemicals (POL Spills)
- Fuel Spills
- Desert pavement (Dry Lake Beds)
  - Drinkwater, No Name, Nelson, Langford, Red Pass, Mclean, & Leach Lake
- Archaeological artifacts
- Spray paint
- Trash





# PRE-ACCIDENT PLANNING



## **“SECURE THE ACCIDENT SITE”**

- 1. Initiate life-saving procedures as necessary.**
- 2. Notify Chain of Command & Call in a MEDAVAC.**
- 3. Neutralize the site and secure classified materials, weapons, ammunition, disconnect battery cables, stop fuel leaks, and check for possible ignition sources.**
- 4. Identify all witnesses and record name, unit, etc.**
- 5. Provide accident site security.**
- 6. Notify a Observer Controller ASAP!**
- 7. ENSURE THE SITE IS UNDISTURBED TO THE MAXIMUM EXTENT POSSIBLE!**



# MEDEVAC

## Real World



*“IF YOU CALL THEM, THEY WILL COME!”*

- Call for life, limb or eyesight
- Senior medic or leader should call for MEDEVAC
- Use standard 9 line format and LZ marking
- Keep your OC informed
- OC can help with communications if needed



**38.900 FM**



# RSOI Overview



**Reception,**

**Staging,**

**Onward movement, and**

**Integration**

FM 100-17-3





# Responsibilities



“Tactical commanders must adapt to the nature of the deployment flow and prepare plans that **rapidly build combat power**, provide for **security of the force**, and **facilitate future operations**.”

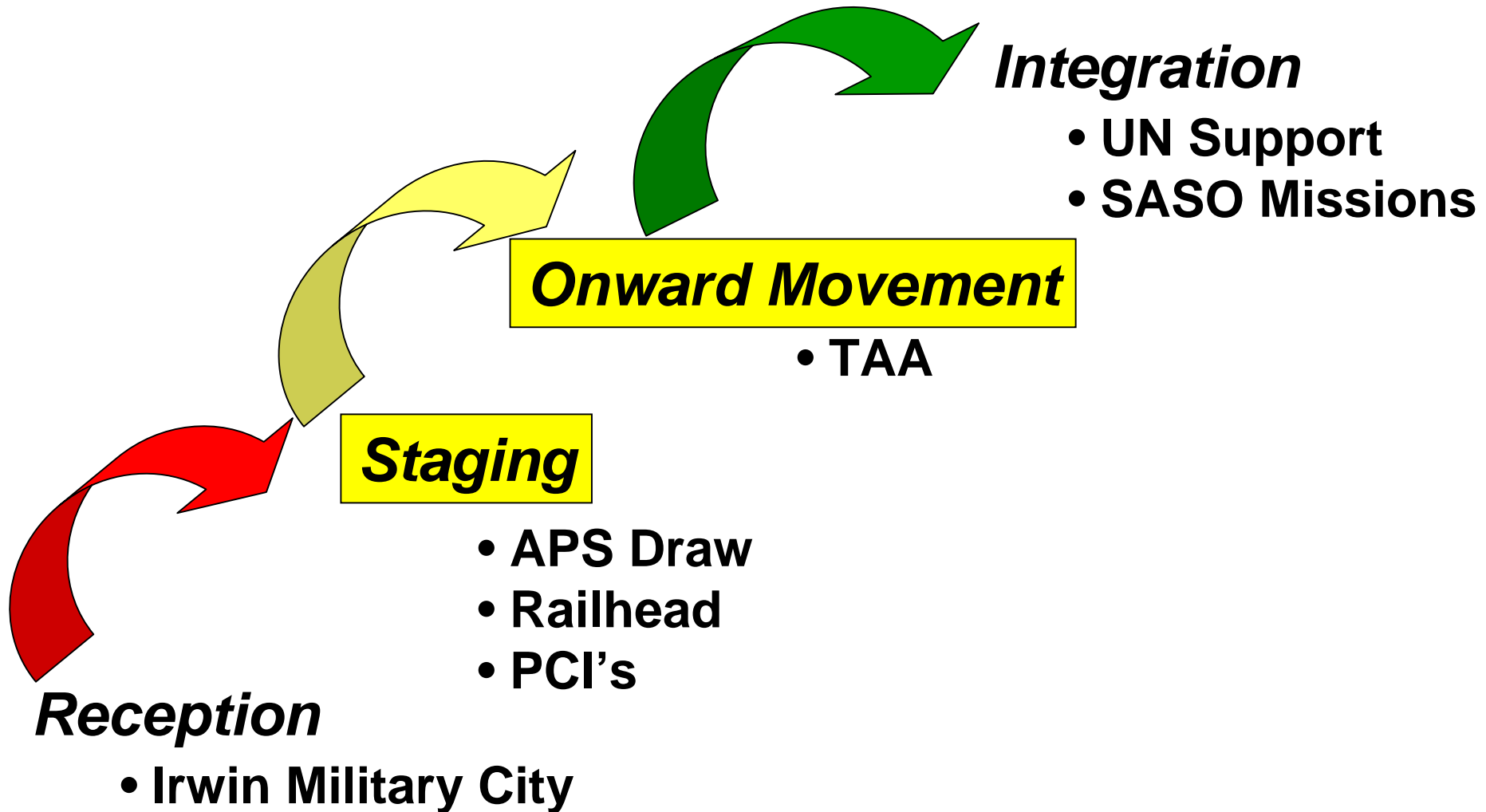
-- FM 3.0, *Operations*

- *Brigades and battalions must have a base plan developed for deployment which allows the unit to build combat capability in stages until unit is fully mission capable.*





# RSOI at the NTC





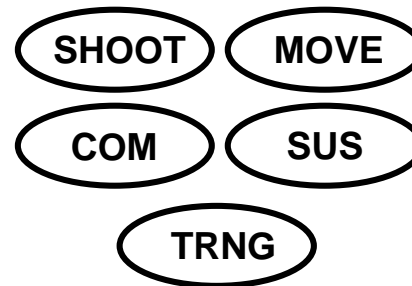
# 2-8 CAV OC RSOI Observations



- *A CO*
- *B CO*
- *B CO*
- *MTR PLT*
- *ADA*
- *SCT PLT*
- *ENG*
- *OVERALL*

## Unit Standards

- 90% ↑
- 70% to 89%
- 50% to 69%
- 49% ↓





# RSOI Build Combat Power Categories



- Shoot
- Move
- Communicate
- Sustain
- Training
- Force Protection
- Personnel

*Application: RSOI, PCC/PCI, stand-to, daily reporting, REDCON*

→ Applies at the **combat vehicle level!**



# Reception, Staging, Onward Movement and Integration



## Legend



**Green: 90% Or More Capability Available  
(No Impact)**



**Amber: 70%-89% Capability Available  
(Minor)**



**Red: 50%-69% Capability Available  
(Moderate)**



**Black: 49% Or Less Capability Available  
(Severe)**



# OC RSOI Building Combat Power Standards



- **SHOOT:**

Adjusted IAW Unit Standards

*MILES Instrumentation complete*

*All weapons MILES boresighted to Unit standards*

*Prep to Fire checks completed*

*All weapons MILES test fired*

- **MOVE:**

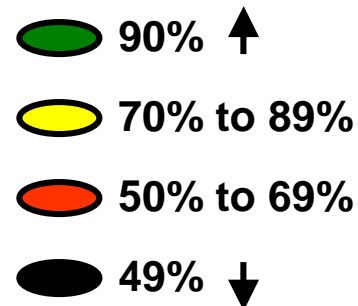
*A complete PMCS conducted on ALL vehicles/ weapons*

*All NMC faults ID'd and a corrective action is taken*

*NVD's O/H and are operational*

*Load plans loaded IAW unit SOP*

*PCC/ PCI's conducted IAW unit SOP*





# OC RSOI Building Combat Power Standards



- **COMMUNICATE:**

Adjusted IAW Unit Standards

*Short & Long range radio checks completed*

*Commo PMCS conducted*

*Secure devices filled & operational*

*Vehicles/ equipment marked IAW unit SOP*

- **SUSTAIN:**

*CL I & water O/H IAW unit UBL at Crew Level*

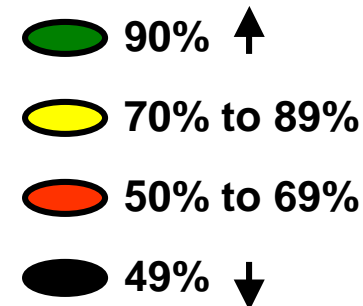
*All vehicles topped off with CL III(B)*

*CL III(P) O/H IAW unit SOP*

*CLS packed IAW unit SOP*

*CL V ABL O/H down to the squad/ crew level*

*(50 CAL and below inside RUBA)*





# ***RSOI***

# ***Rules of Engagements***



## **PPG:**

- 10/50 meter rule applies.
- No physical contact.
- Can become POW, however, event must be covered by an OC.
- Do not chase PPG in the IMC garrison AO.

## **COBs**

- Can search the COBs. Glove compartment of COB vehicle is off limits.
- Can detain COBs. However, must have an OC present.
- Use appropriate force when detaining COBs (ROE).

## **CL V in the RUBA:**

- 50 CAL & below are the only ammunition allowed inside RUBA.
- No ammo larger than 50 cal is authorized INSIDE the RUBA.
- Unit's CAN establish ASP OUTSIDE of RUBA.



# RSOI

## Lessons Learned (1 of 2)



- Must have detailed **Criteria Established** for **SHOOT, MOVE, COMMUNICATE, SUSTAINMENT, PERSONNEL, TRAINING** and the systems to report and track the status from crew to platoon to company to task force. Clearly define what **“Mission Ready”** is for each force protection module and what type of missions they may have to perform (QRF, IRC 1, IRC 2 etc...).
- Staging requires an effective **combat power tracking system** with responsive leaders at all levels (includes C2, Medical, SPT, Maint, as well as Troops)
- **Staff/ CDR communications** is critical throughout the RSOI process, ensuring responsiveness to problems and aiding in the decision-making process.
- RSOI operations are vulnerable to the **full range of threats**, (espionage, civil unrest, terrorist activities, TBM strikes).
- RSOI requires intense supervision by leaders who understand the commander's intent, priorities, and **CCIR** (FFIR, EEFI, PIR)...STD Known but not enforced = Leadership Failure
- **Prioritize** the RSOI build combat power plan based off Force Protection modules & flow of equipment/ personnel (**APS Draw, MILES Instrumentation, Screen, Zero, MILES Boresight, CLV Issue**)





# RSOI

## Lessons Learned (2of2)



- **Command Posts** that function well during Reception and Staging tend to function well during combat operations (**Main CP, CTCP, CO CP**).
- Communication Exercises (**COMEX**) executed to standard during Staging pay significant dividends during combat operations. (Short & Long Range)
- **Draw** the force protection module (QRF/ IRT units) **CL V** prior to RSOI 4 to facilitate rapid CL V upload if alerted to respond to threats outside the “wire”. Establish a **unit field ASP OUTSIDE the RUBA** for CL V larger than 50 cal (120mm Mortar, Tank, 25mm, TOW)
- **Develop a movement plan out of RUBA to the TAAs earlier.** Times will be based off the BCT Movement plan, however, develop a sequence of key events to occur based off a H hour timeline
- Leaders must have a strict battle rhythm and **rest plan** throughout RSOI or they'll begin combat operations in sleep deprivation.



# RSOI Rotational OC Requirements



## RSOI WEEK

- 1x Copy of Deployment OPORD.
- Chemical Defense Equipment Status (O/H vs AUTH).
- CLS bag & MES Inventories.
- Communications Status.
- 5988Es.
- Unit PERSTAT by MOS (O/H vs AUTH) to include attachments and AUGMENTEES.
- 1x copy of all RSOI OPORDs/ FRAGOs and one copy of overlays.

## DURING THE ROTATION

- LOGSTATs
- 5988E & CL IX Reqs.
- Casualties



# RSOI AARs



- **TF RSOI AAR: THU, 16 JAN 03, 1800hrs, BLDG 595 (Tarantula Team CLRM)**

**ATTENDEES:** BN CDR, BN XO, BN S-3, CSM, S-1, S-2, S-4, BMT, SIGO, ALL COMPANY COMMANDERS, HHC CDR, CHEMA, CHAPLAIN, ALL SPECIALTY PL LDRS, (ADA/SPT PL/ MED PL)

- **BCT RSOI AAR: SAT, 18 JAN 03, 0800 @ Bldg 998 (Star Wars)**

**ATTENDEES:** BN CDR, IRC 1 and/ or IRC 2 CDR

- **Will Need 1 Sustain & 1 Improve For the BCT RSOI AAR NLT 16 JAN 03 from:**
  - BN CDR
  - QRF/ IRC CDRs
  - Focus of the BCT AAR Comments are: RSOI Tracking/ Reporting, Mission Ready Definitions, How We Build & Track our FP Modules, C2, Task Organization of FP Packages, RUBA security etc.....